

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number
WO 2005/011970 A1

(51) International Patent Classification⁷: B31F 1/07

(21) International Application Number: PCT/IT2004/000413

(22) International Filing Date: 27 July 2004 (27.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
FI2003A000208 1 August 2003 (01.08.2003) IT

(71) Applicant (for all designated States except US): FABIO PERINI S.p.A. [IT/IT]; Zona Ind.le P.I.P Mugnano Sud, I-55100 Lucca (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GELLI, Mauro [IT/IT]; Via del Marginone 24, Fraz. Pieve S. Paolo, I-55066 Capannori, Lucca (IT). FINOCCKI' Guido [IT/IT]; Via Della Libertà 25, I-57100 Livorno (IT). DINARDO, Valter [IT/IT]; Via Per Valgiano 63B, Degrignano Monte, I-55018 Capannori, Lucca (IT).

(74) Agents: MANNUCHI, Michele et al.; Uff. Tecn. Ing. A. Mannucci S.r.l., Via della Scala 4, I-50123 Firenze (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

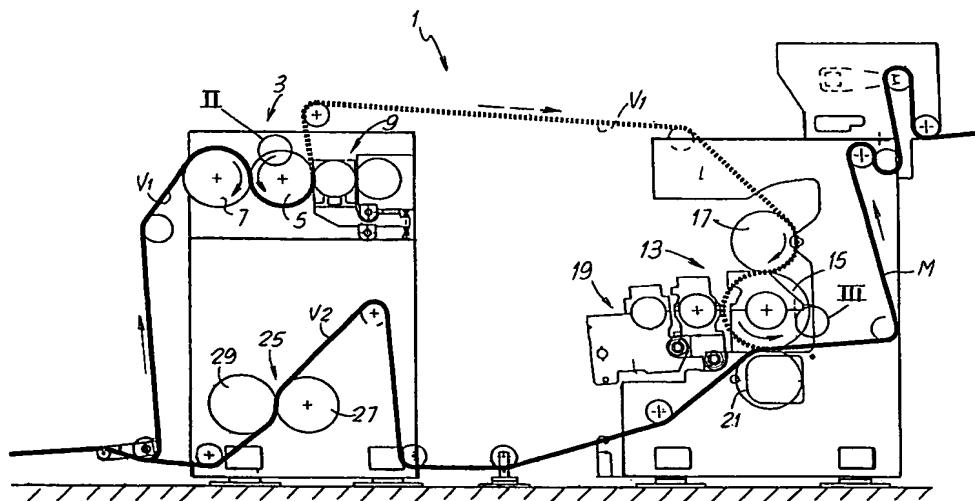
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: METHOD AND DEVICE TO PRODUCE AN EMBOSSED AND PRINTED PRODUCT AND PRODUCT THEREBY OBTAINED



(57) Abstract: The device comprises: a first embossing unit (3) with a first embossing roller (5) equipped with a first series of protuberances (5P); a second embossing unit (13) with a second embossing roller (15) equipped with a second series of protuberances (15P) of greater height and lesser density with respect to the protuberances of said first series, said protuberances defining decorative motifs; a glue dispenser (19) associated with said second embossing roller, to apply a glue to a first ply (V1) embossed by said first and said second embossing unit at the protuberances of said second embossing roller; a laminating member (21) associated with said second embossing roller to apply a second ply (V2) to the first ply. At least a printing unit (9), which applies an ink to said first ply (V1) at the protuberances of the first embossing roller (5), is associated with the first embossing roller (5).

WO 2005/011970 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.